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SAUNDERS, Michael John Scott
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<120> ALCOHOL DEHYDROGENASE SEQUENCES USEFUL FOR DEVELOPING COMPOUNDS FOR
THE PREVENTION AND/OR TREATMENT OF METABOLIC DISEASES

<130> D0590.70042US01

<160> 9

<170> PatentIn version 3.1

<210> 1

<211> 465

<212> PRT

<213> Caenorhabditis elegans

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Leu His Gly Asn Asn Lys Ser Thr Asp Tyr Ala Phe Glu Met Val Cys
35 40 45

Ser Thr Leu Arg Phe Gly Lys Gly Val Thr Leu Glu Ile Gly Tyr Asp
50 55 60

Val Arg Asn Leu Gly Ala Lys Lys Thr Leu Leu Ile Thr Asp Lys Asn
65 70 75 80

Val Gln Asn Thr Ile Ala Phe Lys Asn Ala Glu Gln Ala Leu Lys Met
85 90 95

Val Asn Ile Glu Tyr Glu Val Phe Asp Asp Val Leu Ile Glu Pro Thr
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Val Asn Ser Met Gln Lys Ala Ile Ala Phe Ala Lys Ser Lys Gln Phe
115 120 125

Asp Ser Phe Ile Ala Val Gly Gly Gly Ser Val Ile Asp Thr Thr Lys
130 135 140

Ala Ala Ala Leu Tyr Ala Ser Asn Pro Glu Ala Asp Phe Leu Asp Phe
145 150 155 160

Val Gly Pro Pro Phe Gly Lys Ser Met Gln Pro Lys Asn Pro Met Leu
165 170 175

Pro Leu Ile Ala Val Pro Thr Thr Ala Gly Thr Gly Ser Glu Thr Thr
180 185 190

Ala Ala Ala Ile Met Asp Leu Pro Glu His Lys Cys Lys Thr Gly Ile
195 200 205

Arg Leu Arg Cys Ile Lys Pro Tyr Leu Ala Val Val Asp Pro Leu Asn
210 215 220

Val Met Ser Met Pro Arg Asn Val Ala Ile Tyr Ser Gly Phe Asp Val
225 230 235 240

Leu Cys His Ala Leu Glu Ser Phe Thr Ala Leu Pro Phe Asp Gln Arg
245 250 255

Ser Pro Arg Pro Glu Asn Pro Gly Val Arg Pro Leu Tyr Gln Gly Ser
260 265 270

Asn Pro Ile Ser Asp Val Trp Ser Lys Glu Ala Leu Arg Ile Ile Gly
275 280 285

Lys Tyr Phe Arg Arg Ser Ile Phe Asp Pro Thr Asp Glu Glu Ala Arg
290 295 300

Thr Glu Met Leu Lys Ala Ser Ser Phe Ala Gly Ile Gly Phe Gly Asn
305 310 315 320

Ala Gly Val His Leu Cys His Gly Leu Ser Tyr Pro Ile Ser Ser Gln
325 330 335

Ala Lys Ser Cys Val Ala Asp Asp Tyr Pro Lys Glu Lys Asn Leu Ile

340

345

350

Pro His Gly Leu Ser Val Met Thr Thr Ala Val Ala Asp Phe Glu Phe
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Thr Thr Ala Ala Cys Pro Asp Arg His Leu Ile Ser Ala Gln Thr Leu
 370 375 380

Gly Ala Asp Ile Pro Asn Asn Ala Ser Asn Glu Tyr Ile Ser Arg Thr
 385 390 395 400

Leu Cys Asp Arg Leu Arg Gly Tyr Met Arg Asp Phe Gly Val Pro Asn
 405 410 415

Gly Leu Lys Gly Met Gly Phe Glu Phe Ser Asp Ile Glu Met Leu Thr
 420 425 430

Glu Ala Ala Ser His Ser Val Pro Asn Ile Ala Ile Ser Pro Lys Ser
 435 440 445

Ala Asp Arg Glu Ile Ile Ser Thr Leu Tyr Glu Lys Ser Leu Thr Val
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Tyr
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<211> 1398

<212> DNA

<213> *Caenorhabditis elegans*

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<213> Artificial sequence

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<223> primer

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23

<210> 4

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21

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<212> DNA

<213> *Caenorhabditis elegans*

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gctggaactg gatccgagac taccgcggct gcaatcatgg atcttccaga gcacaagtgc	300
aagactggaa tcagacttcg ttgcatcaag ccgtacttgg cagttgtgga tccgttgaat	360
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<210> 6

<211> 467

<212> PRT

<213> Homo sapiens

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Ala Pro Gly Leu Ser Pro Ser Gly Lys Thr Thr Asp Tyr Ala Phe Glu
35 40 45

Met Ala Val Ser Asn Ile Arg Tyr Gly Ala Ala Val Thr Lys Glu Val
50 55 60

Gly Met Asp Leu Lys Asn Met Gly Ala Lys Asn Val Cys Leu Met Thr
65 70 75 80

Asp Lys Asn Leu Ser Lys Leu Pro Pro Val Gln Val Ala Met Asp Ser
85 90 95

Leu Val Lys Asn Gly Ile Pro Phe Thr Val Tyr Asp Asn Val Arg Val
100 105 110

Glu Pro Thr Asp Ser Ser Phe Met Glu Ala Ile Glu Phe Ala Gln Lys
115 120 125

Gly Ala Phe Asp Ala Tyr Val Ala Val Gly Gly Gly Ser Thr Met Asp
130 135 140

Thr Cys Lys Ala Ala Asn Leu Tyr Ala Ser Ser Pro His Ser Asp Phe
145 150 155 160

Leu Asp Tyr Val Ser Ala Pro Ile Gly Lys Gly Lys Pro Val Ser Val
165 170 175

Pro Leu Lys Pro Leu Ile Ala Val Pro Thr Thr Ser Gly Thr Gly Ser
180 185 190

Glu Thr Thr Gly Val Ala Ile Phe Asp Tyr Glu His Leu Lys Val Lys
195 200 205

Ile Gly Ile Thr Ser Arg Ala Ile Lys Pro Thr Leu Gly Leu Ile Asp
 210 215 220

Pro Leu His Thr Leu His Met Pro Ala Arg Val Val Ala Asn Ser Gly
 225 230 235 240

Phe Asp Val Leu Cys His Ala Leu Glu Ser Tyr Thr Thr Leu Pro Tyr
 245 250 255

His Leu Arg Ser Pro Cys Pro Ser Asn Pro Ile Thr Arg Pro Ala Tyr
 260 265 270

Gln Gly Ser Asn Pro Ile Ser Asp Ile Trp Ala Ile His Ala Leu Arg
 275 280 285

Ile Val Ala Lys Tyr Leu Lys Arg Ala Val Arg Asn Pro Asp Asp Leu
 290 295 300

Glu Ala Arg Ser His Met His Leu Ala Ser Ala Phe Ala Gly Ile Gly
 305 310 315 320

Phe Gly Asn Ala Gly Val His Leu Cys His Gly Met Ser Tyr Pro Ile
 325 330 335

Ser Gly Leu Val Lys Met Tyr Lys Ala Lys Asp Tyr Asn Val Asp His
 340 345 350

Pro Leu Val Pro His Gly Leu Ser Val Val Leu Thr Ser Pro Ala Val
 355 360 365

Phe Thr Phe Thr Ala Gln Met Phe Pro Glu Arg His Leu Glu Met Ala
 370 375 380

Glu Ile Leu Gly Ala Asp Thr Arg Thr Ala Arg Ile Gln Asp Ala Gly
 385 390 395 400

Leu Val Leu Ala Asp Thr Leu Arg Lys Phe Leu Phe Asp Leu Asp Val
 405 410 415

Asp Asp Gly Leu Ala Ala Val Gly Tyr Ser Lys Ala Asp Ile Pro Ala
 420 425 430

Leu Val Lys Gly Thr Leu Pro Gln Glu Arg Val Thr Lys Leu Ala Pro
 435 440 445

Cys Pro Gln Ser Glu Glu Asp Leu Ala Ala Leu Phe Glu Ala Ser Met
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Lys Leu Tyr
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<211> 1831

<212> DNA

<213> Homo sapiens

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<211> 419

<212> PRT

<213> Homo sapiens

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Asp Lys Asn Leu Ser Lys Leu Pro Pro Val Gln Val Ala Met Asp Ser
35 40 45

Leu Val Lys Asn Gly Ile Pro Phe Thr Val Tyr Asp Asn Val Arg Val
50 55 60

Glu Pro Thr Asp Ser Ser Phe Met Glu Ala Ile Glu Phe Ala Gln Lys
65 70 75 80

Gly Ala Phe Asp Ala Tyr Val Ala Val Gly Gly Gly Ser Thr Met Asp
85 90 95

Thr Cys Lys Ala Ala Asn Leu Tyr Ala Ser Ser Pro His Ser Asp Phe
100 105 110

Leu Asp Tyr Val Ser Ala Pro Ile Gly Lys Gly Lys Pro Val Ser Val
115 120 125

Pro Leu Lys Pro Leu Ile Ala Val Pro Thr Thr Ser Gly Thr Gly Ser
 130 135 140

Glu Thr Thr Gly Val Ala Ile Phe Asp Tyr Glu His Leu Lys Val Lys
 145 150 155 160

Ile Gly Ile Thr Ser Arg Ala Ile Lys Pro Thr Leu Gly Leu Ile Asp
 165 170 175

Pro Leu His Thr Leu His Met Pro Ala Arg Val Val Ala Asn Ser Gly
 180 185 190

Phe Asp Val Leu Cys His Ala Leu Glu Ser Tyr Thr Thr Leu Pro Tyr
 195 200 205

His Leu Arg Ser Pro Cys Pro Ser Asn Pro Ile Thr Arg Pro Ala Tyr
 210 215 220

Gln Gly Ser Asn Pro Ile Ser Asp Ile Trp Ala Ile His Ala Leu Arg
 225 230 235 240

Ile Val Ala Lys Tyr Leu Lys Arg Ala Val Arg Asn Pro Asp Asp Leu
 245 250 255

Glu Ala Arg Ser His Met His Leu Ala Ser Ala Phe Ala Gly Ile Gly
 260 265 270

Phe Gly Asn Ala Gly Val His Leu Cys His Gly Met Ser Tyr Pro Ile
 275 280 285

Ser Gly Leu Val Lys Met Tyr Lys Ala Lys Asp Tyr Asn Val Asp His
 290 295 300

Pro Leu Val Pro His Gly Leu Ser Val Val Leu Thr Ser Pro Ala Val
 305 310 315 320

Phe Thr Phe Thr Ala Gln Met Phe Pro Glu Arg His Leu Glu Met Ala
 325 330 335

Glu Ile Leu Gly Ala Asp Thr Arg Thr Ala Arg Ile Gln Asp Ala Gly
 340 345 350

Leu Val Leu Ala Asp Thr Leu Arg Lys Phe Leu Phe Asp Leu Asp Val
 355 360 365

Asp Asp Gly Leu Ala Ala Val Gly Tyr Ser Lys Ala Asp Ile Pro Ala
 370 375 380

Leu Val Lys Gly Thr Leu Pro Gln Glu Arg Val Thr Lys Leu Ala Pro
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Arg Pro Gln Ser Glu Glu Asp Leu Ala Ala Leu Phe Glu Ala Ser Met
 405 410 415

Lys Leu Tyr

<210> 9

<211> 1830

<212> DNA

<213> Homo sapiens

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